# CDF Operations Report
## March 26-April 2, 2007

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**Fermilab**

**All Experimenter's Weekly Meeting**
**April 02, 2007**

# Store Summary (March 26- April 2)

| Store | Start Date | Duration (hours) | Initial Lum (E30) | Deliv. Lum (pb$^{-1}$) | Live Lum (pb$^{-1}$) | Good w/Si (pb$^{-1}$) | Comments |
|---|---|---|---|---|---|---|---|
| 5300 | 3/26 Mon | 29.1 | 223.2 | 8.03 | 7.18 89.4% | 6.70 83.5% | RF station trip & high losses: Silicon out |
| 5301 | 3/27 Tue | 24.7 | 200.1 | 6.61 | 5.78 87.4% | 5.77 87.3% | Minor HV trips TeV: IP position move |
| 5306 | 3/29 Thu | 14.5 | 259.4 | 6.53 | 5.62 86.0% | 5.62 86.0% | Minor HV trips |
| 5314 | 3/31 Sat | 21.5 | 192.7 | 5.99 | 5.18 86.3% | 5.15 86.0% | Minor HV trips Silicon calibration run |
| 5315 | 4/1 Sun | 11.6 | 208.1 | 4.63 | 4.02 86.9% | 4.02 86.9% | Minor HV trips |
| Total | | 101.4 | | 31.79 | 27.78 87.4% | 27.27 85.8% | |

# CDF Operations (March 26- April 2)

- **Power glitch & beam abort on Wednesday**
  - BLM (radiation monitoring) racks & TeV clock crate lost power
  - SVX & L00 tripped due to loss of TeV clock
  - Radiation dose received ~8000 mRad/s, but no obvious damage to detector
- **Controlled Accesses**
  - Thanks to AD for granting two accesses
  - Controlled access on 03/29 (Thu)
    - Look for source of Helium leak $\rightarrow$ no source of leak found in the Collision Hall
  - Controlled access on 03/30 (Fri)
    - Fixed PS for forward Muon system
- **Other Work**
  - Silicon calibration runs (performed every ~200 pb$^{-1}$)
    - monitor stability/longevity of Silicon detector
  - L2 Calorimeter upgrade work
    - Improved L2 Cal trigger to cope with increasing Jet & MET trigger rates at high lumi
      - Jets at L2 will be similar to offline
      - Better resolution for MET $\rightarrow$ lower thresholds & increased acceptance
    - Project making good progress

# Store summary…
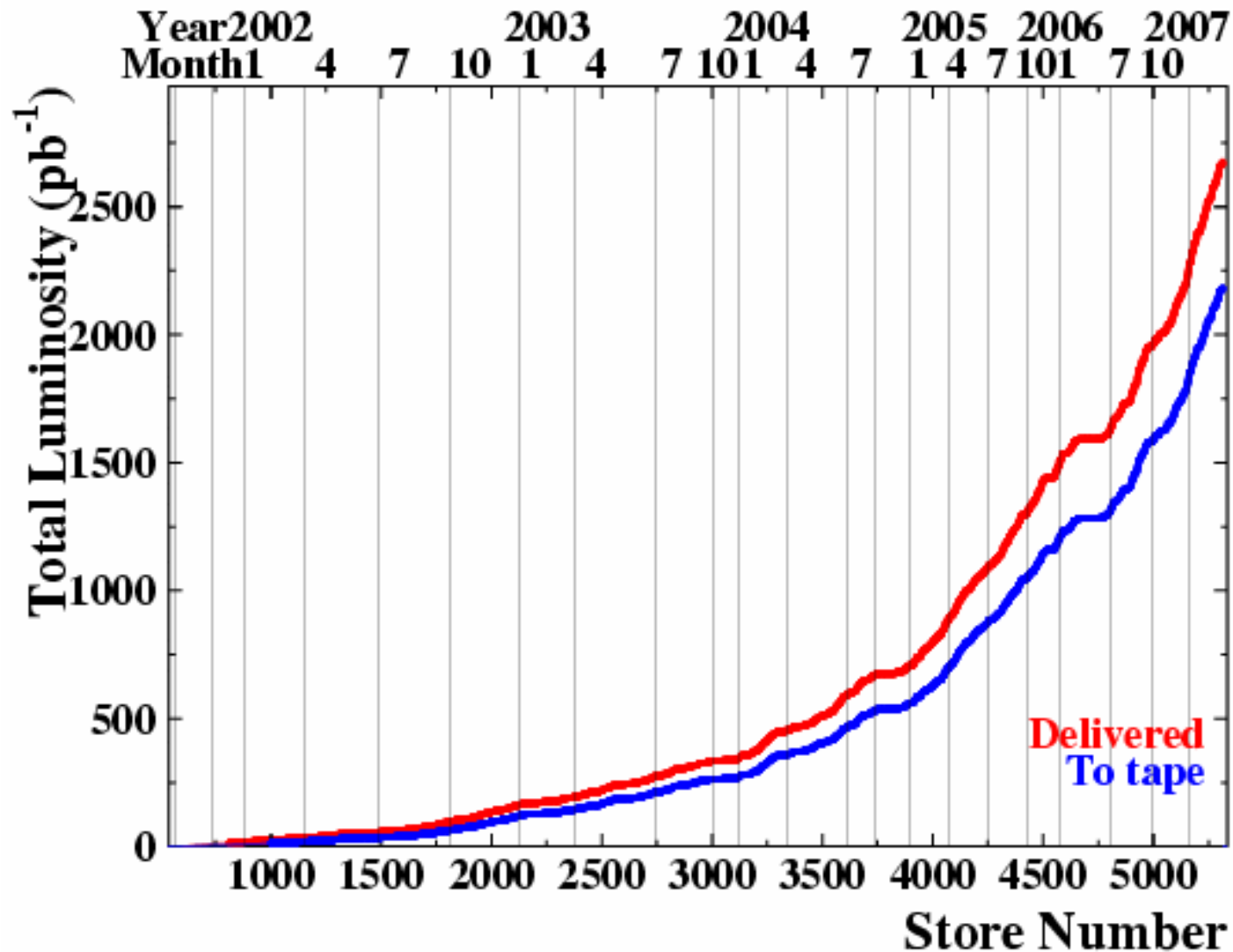


- **2,184 pb$^{-1}$ on tape**
- **Added 27.7 pb$^{-1}$ this week**

# Data taking efficiency

- **All stores**
  - 1,161 stores; 2,674.7 pb$^{-1}$ delivered
  - Ave. efficiency 81.6%; Good with Silicon 70.2%

- **Feb 5 – Apr 2**
  - 45 stores; 282.6 pb$^{-1}$ delivered
  - Ave. efficiency 85.4%; Good with Silicon 83.2%

- **Last week**
  - 5 stores; 31.8 pb$^{-1}$ delivered
  - Ave. efficiency  87.4%;
  - Good with Silicon 85.8%